

Examiner's Copy

AN 107:181592 HCA
TI Free-cutting **copper**
IN Nishikiori, Kyoaki; Kimura, Atsuyoshi
PA Daido Steel Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| | ----- | ---- | ----- | ----- | ----- |
| PI | JP 62047443 | A2 | 19870302 | JP 1985-184079 | 19850823 |
| AB | The free-cutting Cu contains In 0.001-0.50%, optionally with Pb , Bi, and/or Te 0.01-0.50% for total including In .ltoreq.0.70%. Machinability is improved without lowering of elec. and thermal cond. for in chem. and elec. industries. A microalloyed Cu contg. In 0.02% and O .ltoreq.10 ppm was prepd. in a vacuum induction melting furnace and cast to give an ingot of 30 kg. The ingot showed good workability in hot-forging test at 700-800.degree., good machinability in a cutting test with a drill, and elec. cond. 98% of Cu . | | | | |